## NPL Search Results

8/5/2 (Item 2 from file: 8) DIALOG(R) File 8: Ei Compendex(R) (c) 2011 Elsevier Eng. Info. Inc. All rights reserved. Matched field processing with data-derived modes Hursky, P.: Hodakiss, W.S.: Kuperman, W.A. Corresp. Author/ Affil: Hursky, P.: Sci. Appl. International Corp., 888 Prospect Street, Suite 201, San Diego, CA 92037. United States Corresp. Author email: paul.hursky@saic.com Journal of the Acoustical Society of America ( J. Acoust. Soc. Am. ) ( United States ) 2001 109/4 (1355-1366) Publication Date: 20011201

Publisher: Acoustical Society of America Item Identifier (DOI): 10.1121/1.1353592 Document Type: Article: Journal Record Type: Abstract Language: English Summary Language: English

Number of References: 26

The authors demonstrate MFP using data-derived modes and the sound speed profile, using no a priori bottom information. Mode shapes can be estimated directly from vertical line array data, without a priori knowledge of the environment and without using numerical wave field models. However, it is difficult to make much headway with data-derived modes alone, without wave numbers, since only a few modes at a few frequencies maybe captured, and only at depths sampled by the array. Using a measured sound speed profile, the authors derive self-consistent, complete sets of modes, wave numbers, and bottom parameters from data-derived modes. Bottom parameters enable modes to be calculated at all frequencies, not just those at which modes were derived from data. This process is demonstrated on SWellEx-96 experiment data. Modes, wave numbers, and bottom parameters are derived from one track and MFP based on this information is demonstrated on another track. (c) 2001 Acoustical Society of America.

8/5/4 (Item 4 from file: 8) DIALOG(R) File 8: Ei Compendex(R)

(c) 2011 Elsevier Eng. Info. Inc. All rights reserved.

Nonlinear fuzzy rule-based approach for estimating video traffic rate Grant, P.M.; Saw, Yoo-Sok; Hannah, J.M. Corresp. Author/ Affil: Grant, P.M.: Univ of Edinburgh, Edinburgh, United Kingdom Electronics Letters ( Electron Lett ) 1998 34/15 (1461-1462) Publication Date: 19980101 Publisher: IFF

Item Identifier (DOI): 10,1049/el:19981084 Document Type: Article; Journal Record Type: Abstract Language: English Summary Language: English

Number of References: 11

The authors investigate a fuzzy logic-based video rate control technique which aims to regulate compressed video to a constant transmission rate, without incurring objectionable quality degradation. Conventional fuzzy rule-based control (FRC) does not adequately control the output video quality. Video information is therefore added into the FRC design by incorporating feed-forward scaling factors, derived from scene change features. The performance of this coder has been compared with other approaches measuring buffer occupancy, the number of coded bits per frame and peak signal-to-noise ratio.

8/5/5 (Item 5 from file: 8) DIALOG(R) File 8: Ei Compendex(R) (c) 2011 Elsevier Eng. Info. Inc. All rights reserved.

Radial basis function video rate estimator for constant bit rate MPEG coders Saw. Yoo-Sok; Grant, P.M.; Hannah, J.M.; Mulgrew, B.

Corresp. Author/ Affil: Saw. Yoo-Sok: Univ of Edinburgh, Edinburgh, United Kingdom

Electronics Letters ( Electron Lett ) 1996 32/21 (1969-1971)

Publication Date: 19961201

Publisher: IEE

Item Identifier (DOI): 10.1049/el:19961302

Document Type: Article: Journal Record Type: Abstract

Language: English Summary Language: English

Number of References: 4

The authors apply a radial basis function (RBF) network to constant bit rate control for an MPEG2 video encoder. The non-stationary property of the video data has been exploited effectively by using the RBF network as a rate estimator in a feedforward rate control algorithm. The performance of this scheme is evaluated in comparison with Test Model 5 (TM5), by measuring video rate and picture quality.

8/5/7 (Item 7 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

(c) 2011 Elsevier Eng. Info. Inc. All rights reserved.

On source timing recovery for circuit emulation in ATM networks Vakil, F.

Corresp. Author/ Affil: Vakil, F.: Bellcore, Morristown, NJ, USA

Editor(s): Anon

Conference Title: IEEE Global Telecommunications Conference & Exhibition (GLOBECOM '89). Part 1 (of 3)

Conference Location: Dallas, TX, USA Conference Date: 19891127-19891130 Sponsor: IEEE Communications Soc, New York, NY, USA; IEEE Dallas Section, Dallas, TX, USA E.I. Conference No.: 13447 | IEEE Global Telecommunications Conference and Exhibition ( IEEE Global Telecommun Conf Exhib ) 1989 3/- (1820-1827)

Publication Date: 19891201

Publisher: Publ by IEEE

Document Type: Conference Paper: Conference Proceeding Record Type: Abstract

Language: English Summary Language: English

Number of References: 14

Circuit emulation in ATM (asynchronous transfer mode) networks is considered. In a circuit-emulation session the source node generates a periodic cell stream. As this stream passes through the ATM network, it is distorted by cell delay litter and loss, and a corrupted aperiodic copy of the source stream arrives at the receiver (destination). Considering a special case of the problem (fixed rate and small delay litter), a simple scheme is devised that can reconstruct the continuous bit stream from the received cell stream. Allowing for variable rate sources (e.g., fixed quality, variable rate video), the author generalizes the problem and models the received cell stream as a point process whose intensity is a bandlimited function. Based on this model, the author devises an easily implementable mechanism that reconstructs a continuous bit stream from the received cell stream at the receiver (destination). Furthermore, some strategies for improving the performance of the proposed schemes are described. These strategies include assigning a higher priority for circuit-emulation cells, providing cell header error control, and possibly using positioned cells for emulated circuits inside the network.

8/5/14 (Item 1 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2011 The IET. All rights reserved.

Control of perceptual image quality based on PID for streaming video Author(s): Song Jian-xin1

Affiliation(s):

1 Inf. Eng. Dept., Nanjing Univ. of Posts & Telecommun., China

Journal: Journal of China Universities of Posts and Telecommunications, vol.10, no.4, pp.82-9

Publisher: Editorial Department, J. China Univ. of Posts & Telecommunications

Country of Publication: China Publication Date: Dec. 2003

Language: English

Document Type: Journal Paper (JP)

Constant levels of perceptual quality of streaming video is what ideally users expect. In most cases, however, they receive time-varying levels of quality of video. In this paper, the author proposes a new control method of perceptual quality in variable bit rate video encoding for streaming video. The image quality calculation based on the perception of human visual systems is presented. Quantization properties of DCT coefficients are analyzed to control effectively. Quantization scale factors are ascertained based on the visual mask effect. A proportional integral difference (PID) controller is used to control the image quality. Experimental results show that this method improves the perceptual quality uniformity of encoded video. ( 15 refs.)

8/5/17 (Item 4 from file: 2) DIALOG(R) File 2: INSPEC

(c) 2011 The IET, All rights reserved.

Transcoding of MPEG-2 video bitstreams in the frequency domain

Author(s): Sostawa, B.1; Speidel, J.1

Affiliation(s):

Inst. fur Nachrichtenubertragung, Stuttgart Univ., Germany

Journal: ITG-Fachbericht, no.156, pp.197-202 Publisher: VDE-Verlag

Country of Publication: Germany

Publication Date: 1999

Conference Title: Multimedia, Anwendungen, Technologie, Systeme (Multimedia, application,

technology, system)

Conference Date: 27-29 Sept. 1999

Conference Location: Dortmund, Germany

Language: English

Document Type: Conference Paper in Journal (PA)

MPEG-2 video coding is widely used in broadcasting and increasingly in studio applications. For reasons of limited storage and/or transmission capacity, it may be necessary to reduce the bit rate of MPEG-2 video bitstreams. We present a frequency domain transcoder (FDTC) with low complexity and low memory requirements which can reduce the bit rate of the incoming video bitstream. A rate control with low delay provides a constant bit rate (CBR) stream at the output, independent of whether the input bit rate is variable (VBR) or constant (CBR). The FDTC achieves the same peak signal-go-noise ratio (PSNR) as a bulky cascade of a complete MPEG-2 video decoder and encoder. Moreover, for real time applications, an implementation of the FDTC on a media processor is presented. (5 refs.)

8/5/18 (Item 5 from file: 2) DIALOG(R) File 2: INSPEC

(c) 2011 The IET. All rights reserved.

Session-based resource management for distributed multimedia system Author(s): Zhang Zhan-Jun1; Yang Xue-Liang1; Zhang Jing1

Affiliation(s):

Dept. of Comput. Sci., Univ. of Sci. & Technol. of China, Beijing, China Journal: Chinese Journal of Computers, vol.21, no.11, pp.970-9

Publisher: Science Press

Country of Publication: China

Publication Date: Nov. 1998

Language: Chinese

Document Type: Journal Paper (JP)

The guarantees of steady rate of continuous multimedia streams and synchronization among media streams are important problem in distributed multimedia system (DMS). The model of resource management is a key issue to guarantee them in systems. This paper presents a model of session-based resource allocation and management. When resources are allocated, it can meet the resources required by steady continuous media stream by making equilibrium equation to allocate threat periods, I/O processors periods, buffer space and network bandwidth for continuous media streams. The results show that periods of thread, I/O process and network process are functions about buffer space. When a session requests resources, system will decide whether it can be scheduled according to schedulability of CPU period, buffer space, I/O bandwidth and network bandwidth that are presented in this paper. When resource is managed, it can meet synchronization among media streams by adjusting their rates. On this scheme, the authors suggest an approach to real-time generation of session resource requirements, which resource overheads. (6 refs.)

8/5/21 (Item 8 from file: 2) DIALOG(R) File 2: INSPEC

(c) 2011 The IET. All rights reserved.

Project PATRON-audio and video on demand at the University of Surrey

Author(s): Maslin, J. '; Lyon, E. '

Affiliation(s):

1 Dept. of Inf. Services, Surrey Univ., Guildford, UK

Journal: Information Services & Use, vol.18, no.1-2, pp.45-51

Publisher: IOS Press

Country of Publication: Netherlands

Publication Date: 1998 Language: English

Document Type: Journal Paper (JP)

Project PATRON (Performing Arts Teaching Resources Online) has been designed to deliver digital audio, video, music scores and dance notation across a high speed network to the desktop. Many of the resource materials were in the short loan section and a major aim was to investigate ways of improving access to reserve materials, such as music CDs and dance videos, for staff and students. User requirements were investigated via a series of initial focus groups which informed the design of the PATRON interface. User evaluation has continued to play a major part in the project. Typical scenarios for the ways in which the service is aimed to be used include students individually reading a score and listening to a number of interpretations of the music using standard computers. Because the same pieces can be used simultaneously, this will remove the pressures on library resources. Another scenario sees the material being made available in lecture theatres with a full range of playing controls. The authors discuss the resource materials (conversion, scanned images, audio, and video), the system components, and the user interface. The project has demonstrated the ability to bring together different types of material through a simple user interface and achieve good levels of quality on standard current computers.

8/5/25 (Item 12 from file: 2) DIALOG(R) File 2: INSPEC

(c) 2011 The IET. All rights reserved.

Complexity based rate control for MPEG encoder

Author(s): King-Wai Chow1; Bede Liu1

Affiliation(s):

<sup>1</sup> Dept. of Electr. Eng., Princeton Univ., NJ, USA

Book Title: Proceedings ICIP-94 (Cat. No.94CH35708)

Inclusive Page Numbers: 263-7 vol.1

Publisher: IEEE Comput. Soc. Press. Los Alamitos. CA

Country of Publication: USA

Publication Date: 1994

Conference Title: Proceedings of 1st International Conference on Image Processing Conference Date: 13-16 Nov. 1994

Conference Location: Austin. TX. USA

Conference Sponsor: IEEE Signal Process. Soc Item Identifier (DOI): 10.1109/ICIP.1994.413316

Part: vol.1

Number of Pages: 3 vol. (liii+992+1064+1050)

Language: English

Document Type: Conference Paper (PA)

Bit rate control is an important step in the video encoding process in that it transforms a variable rate bit stream into a constant rate one for communication channels or storage of fixed bandwidth. The authors propose a hierarchical approach to this problem based on a novel method to characterize the activity or complexity of the image sequence. They introduce a local discrepancy measure, AME (average of maximum 10% of mean square error) of the macroblock. The method performs better than the others in AME with similar mean square error per pixel. (10 refs.)

8/5/27 (Item 14 from file: 2) DIALOG(R) File 2: INSPEC (c) 2011 The IET. All rights reserved.

Development of ASIC based H1 rate video codec

Author(s): Kobayashi, T.<sup>1</sup>; Shomura, K.<sup>1</sup>; Saito, R.<sup>1</sup>; Fujiwara, H.<sup>1</sup>; Shiina, T.; Ogata, N.; Hamanaka, S.

Affiliation(s):

GC Technol. Co., Tokvo, Japan

Journal: Journal of the Institute of Television Engineers of Japan , vol.47 , no.10 , pp.1313-22

Country of Publication: Japan Publication Date: Oct. 1993

Language: Japanese

Document Type: Journal Paper (JP)

From viewpoints of performance, cost, and flexibility, programmable ASICs are the best choice for implementing H1 rate video codess. For compact implementation, the authors developed their own ASIC for the audio codec, adopted a high performance H.221 multiplexer-demultiplexer and organized the codec system and picture quality controls under a single microprocessor. They implemented various kinds of communication interfaces, and confirmed performance and functions by evaluating image quality and testing conformance with different vendors codecs. (21 rest.)

8/5/32 (Item 19 from file: 2) DIALOG(R) File 2: INSPEC

(c) 2011 The IET. All rights reserved.

Management of an adaptable-bit-rate video service in a MAN environment

Author(s): Marini, M.<sup>1</sup>; Albanese, A. Affiliation(s):

<sup>1</sup> Telettra, Milano, Italy

Journal: Proceedings of the SPIE - The International Society for Optical Engineering, vol.1364, pp.289-94

Country of Publication: USA

Publication Date: 1991

Conference Title: FDDI, Campus-Wide and Metropolitan Area Networks

Conference Date: 19-21 Sept. 1990 Conference Location: San Jose, CA, USA

Conference Sponsor: SPIE

Language: English

Document Type: Conference Paper in Journal (PA)

The authors describe an adaptable-bit-rate video service concept experiment and its management in an experimental prototype of a public metropolitan area network (MAN). In the experiment, the "service providers' supply their customers with a set of service management primitives to implement customer-defined management applications and provide users with a high level of flexibility in the service definition. The paper describes the architecture for an experimental service management system that includes customer controlled features for dynamic bandwidth allocation, group addressing, and address screening. (§ 6 refs.)

8/5/57 (Item 1 from file: 99)
DIALOG(R) File 99: Wilson Appl. Sci & Tech Abs
(c) 2011 The HW Wilson Co. All rights reserved.

Joint rate control for VBR MPEG video on PVC ATM links Reininger, Daniel; Kwok, Wilson Multimedia Systems v. 5 (December 1997) p. 380-5 Language: English Record Status: Corrected or revised record

The authors present a joint rate control algorithm for variable bit rate (VBR) MPEG-compressed digital video on point-to-point permanent virtual circuit asynchronous transfer mode links. The algorithm controls the encoding mode of a number of video encoders operating on variable bit rate or constant bit rate (CBR) mode. It selects the encoding mode beased on the buffer occupancy of a multiplexer colocated with the encoders that interfaces them to the permanent virtual link. During congestion-free periods, VBR encoding is predominantly used, whereas during congested periods, CBR mode is used. An evaluation of the algorithm's performance through simulation of a packet multiplexer showed that the algorithm improved performance over multiplexed conventional CBR or open-loop VBR MPEG video without substantially increasing implementation complexity.

8/5/58 (Item 2 from file: 99)

DIALOG(R) File 99: Wilson Appl. Sci & Tech Abs (c) 2011 The HW Wilson Co. All rights reserved.

Efficient Real-Time Frame Layer Rate Control Technique for Low Bit Rate Video over WLAN Kim, Yoon; Pyun, Jae-Young; Kim, Hye-Soo

IEEE Transactions on Consumer Electronics v. 49 no3 (Aug. 2003) p. 621-8

Document Type: Feature Article Language: English Record Status: Corrected or revised record

The authors propose a real-time frame-layer-rate control algorithm for low-bit-rate video coding over IEEE 802.11 wireless local area network. The proposed method performs bit allocation at the frame level to minimize variations in distortion between frames and the average distortion over an entire sequence. The proposed method is shown to offer better visual and PSNR performance than the existing TNNS rate control method.

8/5/60 (Item 4 from file: 99) DIALOG(R) File 99: Wilson Appl. Sci & Tech Abs

(c) 2011 The HW Wilson Co. All rights reserved.

Rate Control of MPEG Video for Consistent Picture Quality

Hong, Sung-Hoon; Yoo, Sang-Jo; Lee, Si-Woong

IEEE Transactions on Broadcasting v. 49 no1 (Mar. 2003) p. 1-13

Document Type: Feature Article Language: English Record Status: Corrected or revised record

The authors propose an MPEG video rate control scheme for consistent picture quality. The scheme is based on a rate-distortion (RD) estimation model for predicting bits and distortion generated from an encoded frame at a given quantization parameter. It is a low complexity method for computing RD data and achieves estimation errors for rate and distortion of less than 2.5 and 1.5 percent, respectively.

8/5/65 (Item 9 from file: 99)
DIALOG(R)File 99: Wilson Appl. Sci & Tech Abs
(c) 2011 The HW Wilson Co. All rights reserved.

Rate control for VBR video over ATM: simplification and implementation Yang, Yan : Hemami, Shella S

IEEE Transactions on Circuits and Systems for Video Technology v. 11 no9 (Sept. 2001) p. 1045-58

Document Type: Feature Article Language: English Record Status: Corrected or revised record

The authors show that the selection of video source and channel rates can be separated, simplifying the rate-control problem for video transmission over asynchronous transfer mode (ATM) networks. Source and channel rates selection was always performed jointly because the rates are related through buffer and network constraints and therefore appear to be interdependent. A new rate-control algorithm implements noniterative, separate sequential selection of source and channel rates to minimize the distortion variation between frames, subject to all buffer and network constraints.

8/5/67 (Item 11 from file: 99)
DIALOG(R)File 99: Wilson Appl. Sci & Tech Abs
(c) 2011 The HW Wilson Co. All rights reserved.

A practical rate control algorithm for VBR MPEG-2 video transmission over ATM networks Lee, Won-Yeol; Jeong, Yeonsik; Lee, Jae Cheol

I EEE Transactions on Consumer Electronics v. 46 no2 (May 2000) p. 257-64

Document Type: Feature Article Language: English Record Status: Corrected or revised record

The authors propose a joint encoder and channel rate control system for real-time, variable-bit-rate video transmission over asynchronous transfer mode networks. In this a system, the channel rate over unit group of pictures is allocated by the proposed 3-state Marcov chain model, and encoder rate control is carried out by solving the minimum distortion equation using the Lagrange multiplier. Tests show that this method maintains consistent quality and compares well with conventional real-time implementations.

8/5/72 (Item 2 from file: 95)
DIALOG(R)File 95: TEME-Technology & Management
(c) 2010 FIZ TECHNIK. All rights reserved.

XTPX transport system for flexible QoS support of multimedia applications

Miloucheva, I; Bonnesz, O

TU of Berlin, D

1995 IEEE 14th Annual Internat. Phoenix Conf. on Comput. and Communications, Conf. Proc., Scottsdale, USA, Mar 28-31, 1995, 1995

Document type: Conference paper Language: English

Record type: Abstract

This paper describes design, implementation aspects and usage of a transport system based on XTPX (eXpress Transfer Protocol eXtended) for flexible Quality of Service (QoS) support of multimedia applications in a heterogeneous network, operating system and workstation environment. The authors focus especially on protocol mechanisms providing specific multimedia requirements: (1) Rate control techniques for synchronization and bundling of multimedia connections as well as for multimedia traffic 'squeezing' to control the discrete time independent (asynchronous) media used simultaneously with continuous time dependent (isochronous) media (2) Throughput scalability support based on dynamic rate control and threshold QoS monitoring using the XTPX Management Information Base. (3) Adaptive acknowledgment and retransmission techniques considering QoS requirements (throughout, delav, delav titter) of specific media data and different network conditions

(ATM, LAN, satellite). The usage of these mechanisms is demonstrated with scenarios and performance measurements in PC environment on top of Ethernet network.

8/5/77 (Item 4 from file: 60)
DIALOG(R)File 60: ANTE: Abstracts in New Tech & Engineer

(c) 2011 CSA, All rights reserved.

Packet identification mechanism at the transmitter and receiver for an enhanced ATSC 8-

VSB system Gaddam, Vasanth R; Birru, Dagnachew

Document Type: Patent Record Type: Abstract

Language: English

A flexible digital transmission system that improves upon the ATSC A/53 HDTV signal transmission standard. The system includes a digital signal transmitter for generating a first Advanced Television Systems Committee (ATSC) standard encoded 8-VSB bit stream and, for generating an encoded new robust bit stream for transmitting high priority information bits, wherein symbols of the new bit stream are capable of being transmitted according to a transmission mode including: a 2-VSB mode and a 4-VSB transmission mode. The standard 8-VSB bit stream and new bit stream may be simultaneously transmitted over a terrestrial channel according to a broadcaster defined bit-rate ratio. The transmission system includes a control mechanism for generating information needed for encoding robust packets at a transmitter device. It also includes a mechanism for encoding control parameters and multiplexes the generated information with the standard and robust bit-streams for transmission. A receiver architecture is additionally provided to decode standard and robust bit-streams framsmitted by the transmitter device.

16/5/1 (Item 1 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

(c) 2011 Elsevier Eng. Info. Inc. All rights reserved.

Multimedia meets computer graphics in SMIL2.0: A time model for the web

Issue Title: Proceedings of the 11th International Conference on World Wide Web, WWW '02 Schmitz. Patrick

Corresp. Author/ Affil: Schmitz, P.: W3C SYMM Working Group, United States

Corresp. Author email: cogit@ludicrum.org

Conference Title: 11th International Conference on World Wide Web. WWW '02

Conference Location: Honolulu, HI United States Conference Date: 20020507-20020511 Sponsor: Association for Computing Machinery (ACM); WWW'02

E.I. Conference No.: 80482 Proceedings of the 11th International Conference on World Wide Web, WWW '02 ( Proc. Int. Conf. World Wide Web, WWW ) ( United States ) 2002 (45-53)

Publication Date: 20021201

Publisher: Association for Computing Machinery

Item Identifier (DOI): 10.1145/511446.511453

Document Type: Conference Paper; Conference Proceeding Record Type: Abstract

Language: English Summary Language: English

Number of References: 32

Multimedia scheduling models provide a rich variety of tools for managing the synchronization of media like video and audio, but generally have an inflexible model for time itself. In contrast, modern animation models in the computer graphics community generally lack tools for synchronization and structural time, but allow for a flexible concept of time, including variable pacing, acceleration and deceleration and other tools useful for controlling and adapting animation behaviors. Multimedia authors have been forced to choose one set of features over the others, limiting the range of presentations they can create. Some programming models addressed some of these problems, but provided no declarative means for authors and authoring tools to leverage the functionality. This paper describes a new model incorporated into SMIL 2.0 that combines the strengths of scheduling models with the flexible time manipulations of animation models. The implications of this integration are discussed with respect to scheduling and structured time, drawing upon experience with SMIL 2.0

16/5/3 (Item 3 from file: 8) DIALOG(R)File 8: Ei Compendex(R)

(c) 2011 Elsevier Eng. Info. Inc. All rights reserved.

Power-spectrum-based neural-net connection admission control for multimedia networks Chang, C.-J.; Lin, L.-F.; Lin, S.-Y.; Cheng, R.-G.

Corresp. Author/ Affil: Chang, C.-J.: Dept. of Communication Engineering, National Chiao Tung University, Hsinchu 300, Talwan, Province of China

university, Historiu 300, Talwan, Province of China IEE Proceedings: Communications (IEE Proc Commun ) ( United Kingdom ) 2002 149/2 (70-76) Publication Date: 20020722

Publisher: Institution of Engineering and Technology
Item Identifier (DOI): 10.1049/ip-com:20020031
Document Type: Article; Journal Record Type: Abstract
Language: English Summary Language: English

Number of References: 13

Multimedia networks need sophisticated and real-time connection admission control (CAC) not only to guarantee the required quality of service (OSS) for existing calls but also to enhance utilisation of systems. The power spectral density (PSD) of the input process contains correlation and burstiness characteristics of input traffic and possesses the additive property. Neural networks have been widely employed to deal with the traffic control problems in high-speed networks because of their self-learning capability. The authors propose a power-spectrum-based neural-net connection admission control (PNCAC) for multimedia networks. A decision hyperplane is constructed for the CAC using power spectrum parameters of traffic sources of connections, under the constraint of the QoS requirement. Simulation results show that the PNCAC method provides system utilisation and robustness superior to the conventional equivalent capacity CAC scheme and Hiramatsu's neural network CAC scheme, while meeting the QoS requirement.

16/5/8 (Item 8 from file: 8)
DIALOG(R) File 8: Ei Compendex(R)

(c) 2011 Elsevier Eng. Info. Inc. All rights reserved.

QuickTime: An extensible standard for digital multimedia

Hoffert, Eric; Krueger, Mark; Mighdoll, Lee; Mills, Micheal; Cohen, Johnathan; Camplejohn, Doug; Leak, Bruce; Batson, Jim; Yan Brink, David; Blackketter, Dean; Arent, Michael; Williams, Rich; Thorman, Chris; Yawitz, Mitch; Doyle, Ken; Callahan, Sean

Corresp. Author/ Affil: Hoffert, Eric

Conference Title: 37th Annual IEEE International Computer Conference - COMPCON SPRING '92 Conference Location: San Francisco, CA, USA Conference Date: 19920224-19920228 Sponsor: IEEE Computer Soc

E.I. Conference No.: 17597 Digest of Papers - IEEE Computer Society International Conference (Dig Pap IEEE Comput Soc Int Conf.) 1992, IEEE 92CH3098-1 (15-20)

Publication Date: 19921201

Publisher: Publ by IEEE

Document Type: Conference Paper; Conference Proceeding Record Type: Abstract Language: English Summary Language: English

Number of References: 8

The authors describe QuickTime, an extensible standard for digital multimedia which establishes a foundation for the representation of time-based objects and file formats, still image and video compression techniques, human interface conventions, and application programming interfaces. All of these representations can stay the same as one moves towards an era of full-screen, full-motion digital video/high-resolution digital systems and as the underlying media technologies and compression schemes improve rapidly over time. QuickTime includes direct support in the operating system for audio/video synchronization and for still and moving image compression algorithms. Software-based video decompression is used as a means to permit dynamic media functionality in all

color Macintosh computers. As a result, QuickTime brings dynamic media to a broad range of applications, including not only media authoring tools such as video editors and animation systems, but to mainstleam tools such as word processors, databases, spreadsheets, and electronic mail.

16/5/24 (Item 1 from file: 2)
DIALOG(R)File 2: INSPEC
(c) 2011 The IET. All rights reserved.

IVFCP: a flow control protocol for Internet video Author(s): Qi Han<sup>1</sup>; Hongchi Shi<sup>1</sup>

Affiliation(s):

<sup>1</sup> Dept. of Comput. Eng. & Comput. Sci., Missouri Univ., Columbia, MO, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering , vol.4118 ,

pp.136-45

Publisher: SPIE-Int. Soc. Opt. Eng. Country of Publication: USA Publication Date: 2000

Conference Title: Parallel and Distributed Methods for Image Processing IV

Conference Date: 30 July 2000

Conference Location: San Diego, CA, USA Conference Sponsor: SPIE Item I dentifier (DOI): 10.1117/12.403597

Language: English

Document Type: Conference Paper in Journal (PA)

This paper attempts to provide better services on the Internet based on enhancing the application layer. This author's propose a new Internet video flow control protocol (IVFCP) which adjust data sending rate based on the combination of the receiver buffer length, packet loss ration, and current data rate. The flow control protocol runs every round trip instead of periodically or when congestion happens. It can control the rate more directly and precisely. This rate-based feedback control protocol is evaluated through simulation, and its performance is compared with that of other protocols. (
16 refs.)

16/5/26 (Item 3 from file: 2) DIALOG(R) File 2: INSPEC

(c) 2011 The IET. All rights reserved.

MMX technology code optimization Author(s): Fomitchev, M.I.

Journal: Dr. Dobb's Journal , vol.24 , no.9 , pp.38-48

Publisher: Miller Freeman Country of Publication: USA Publication Date: Sept. 1999 Language: English

Document Type: Journal Paper (JP)

It has not been that long since computationally intensive, real-time graphics applications required digital signal processors (DSPs) or other special processors. With the introduction of single instruction stream multiplex data stream (SIMD) extensions to general-purpose processors, however, things have changed. The author discusses Intel's MMX multimedia instruction set extension. He discusses MMX code optimization and suggests techniques for achieving maximum speed on two common PC CPUs: the Intel Pentium II and AMD K6-2. (O refs.)

DIALOG(R) File 2: INSPEC

<sup>16/5/28 (</sup>Item 5 from file: 2)

<sup>(</sup>c) 2011 The IET. All rights reserved.

Architecture of the virtual broadcast studio Author(s): Guzik, K.1 Affiliation(s): Sun Microsyst, Inc., Menlo Park, CA, USA Journal: SMPTE Journal, vol.106, no.12, pp.881-6 Publisher: Soc. Motion Picture & Telev. Eng. Country of Publication: USA Publication Date: Dec. 1997 Language: English Document Type: Journal Paper (JP)

The fusion of digital video technology, high-speed wide-area networks, and digital file servers allows us to view the future of television broadcast studios very differently than we do today. As computer and network technologies have advanced in both sophistication and performance, our understanding of the possibilities that the application of these technologies can provide has also grown. Digital networks are no longer used simply as a mechanism for communication between computers, but are capable of transferring data fast enough to make the real-time distribution of high-quality video data to a wide audience a reality. The ability to store, access, control and move large volumes of digital data reliably across great distances at very high speed gives us the tools with which we can build the types of services necessary to manage and run a broadcast studio. In addition, through the use of network distributed object software models, we can build studios that are very flexible and easy to change, and highly adaptable to new technologies with a minimum of effort or disruption. (3 refs.)

16/5/33 (Item 10 from file: 2) DIALOG(R) File 2: INSPEC (c) 2011 The IET. All rights reserved. A new rate control strategy for the MPEG video coding algorithm Author(s): Kawashima, M.1; Cheng-Tie Chen1; Fure-Ching Jeng1; Singhal, S.1

Affiliation(s): Bell Comm. Res., Morristown, NJ, USA

Journal: Journal of Visual Communication and Image Representation, vol.4, no.3, pp.254-62 Country of Publication: USA

Publication Date: Sept. 1993 Language: English Document Type: Journal Paper (JP)

The authors describe a new rate control strategy for the MPEG video coding algorithm. The presented strategy assigns quantizer step sizes considering the spatial activity of the coded area, and changes the bit allocation to each coding mode dynamically so that the ratio of quantizer step sizes among different coding modes becomes stable at the given target ratio. The strategy was implemented on the Hybrid Extended MPEG (Bellcore's proposal to ISO/MPEG) in simulations. In the simulations, it was shown that the resulting ratio of quantizer step sizes among different coding modes is always close to the given target ratio while the coder also satisfies the constraint of the given bit rate. (6 refs.)

16/5/50 (Item 27 from file: 2) DIALOG(R) File 2: INSPEC (c) 2011 The IET, All rights reserved.

Technical programme equipment for television of the Norwegian state broadcasting authority

Author(s): Mathisen, N. Journal: Teknisk Ukeblad, vol.107, no.42, pp.937-942

Country of Publication: Norway Publication Date: 17 Nov. 1960 Language: Norwegian

Document Type: Journal Paper (JP)

The ground area of the premises is 1000 m SUP 2, comprising two studios of 240 m SUP 2 and 110 m SUP 2, between which is situated the control section. A general account is given of the motion picture equipment, methods of synchronization, sound recording and film scanners. The studio installation described included: camera chains, sound and studio-lighting equipment, the master control room, video tape recorders and outside broadcasting equipment.

9/3,K/1 (Item 1 from file: 275)
DI ALOG(R)File 275: Gale Group Computer DB(TM)
(c) 2011 Gale/Cengage. All rights reserved.

Will MPEG-4 Fly? A new streaming-media standard promises to unify a fractious market, but inferior quality and bureaucracy may block acceptance.(Technology Information) Ozer, Jan

PC Magazine , 101 April 3 , 2001

Language: English Record Type: Fulltext; Abstract Word Count: 2597 Line Count: 00213

their audiences having the necessary playback capabilities.

Apple, Microsoft, and Real have well-established pricing policies for their technologies, with free decoders for all. Until MPEG-4 royalties and rates are similarly established, publishers evaluating MPEG-4 as

9/3,K/5 (Item 5 from file: 275)
DIALOG(R)File 275: Gale Group Computer DB(TM)
(c) 2011 Gale/Cengage. All rights reserved.

QuickTime. (enhancements in version 2.5 of Apple system extension) (includes related articles on QuickTime on the Web, Microsoft ActiveMovie, future enhancements) (Product Information)

Gore, Andrew; Milstead, Jeffy MacUser, v12, n9, p63(4)

Sep , 1996

Language: English Record Type: Fulltext; Abstract Word Count: 2985 Line Count: 00239

version boasts unique features that make it the definitive plug-in for QuickTime on the Net. Apple's QuickTime plug-in lets Web authors embed QuickTime movies in their pages. A set of HTML tags lets authors specify whether movies will play automatically upon loading and whether they will loop continuously or play only once. Movie viewers can play, pause, and fast-forward movies. And.

9/3,K/7 (Item 7 from file: 275)
DIALOG(R) File 275: Gale Group Computer DB(TM)
(c) 2011 Gale/Cengage, All rights reserved.

Passport Producer Pro: Passport Designs' multimedia presentation tool goes interactive. (Software Review) (New on the Menu: Reviews) (Evaluation)

Bledny, David MacUser, v10, n5, p48(2)

May , 1994

Document Type: Evaluation

Language: ENGLISH Record Type: FULLTEXT; ABSTRACT

Word Count: 1064 Line Count: 00088

control cues. The video-window cues support a variety of video digitizers and enable you to play live

video directly to the screen. The machine-control cues control video decks and laserdisc players connected to the video digitizers. Producer Pro supports protocols for Sony ViSCA, MIDI

Machine Control, Pioneer Laserdisc, and V-LAN and ARTI networks. Also worth mentioning is the CD Disc cue...

9/3.K/11 (Item 11 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

(c) 2011 Gale/Cengage. All rights reserved.

QuickTime-savvy action takes over Director's chair. (Macromedia Inc.'s MacroMind Director 3.1 animation package, Apple QuickTime operating system enhancement) (includes related article on product rating) (Software Review) (Evaluation)

Wagstaff, Sean

MacWEEK, v6, n29, p57(1) August 10, 1992

Document Type: Evaluation

Language: ENGLISH Record Type: FULLTEXT: ABSTRACT

Word Count: 1339 Line Count: 00107

this simple change to QuickTime movies, you'll need Premiere or VideoShop, which break QuickTime sounds and images into separate, editable tracks. You can, however, control a QuickTime movie's playout volume via Lingo scripting, and you can turn Director's sound off if you're happy with silence or an external sound source.

Play time. Director plays every frame in an animation, so on slower machines...

9/3.K/18 (Item 7 from file: 621)

DIALOG(R) File 621: Gale Group New Prod. Annou. (R)

(c) 2011 Gale/Cengage. All rights reserved.

Vivo Software Announces New Version of Vivo Active Producer

PR Newswire, p 1112NETU020

Nov 12, 1996

Language: English Record Type: Fulltext

Document Type: Newswire: Trade

Word Count: 861

is transported like any other common Web data type, enabling video to pass securely through firewalls and wherever standard Web traffic goes

-- It works with established, popular Web video formats, such as QuickTime/AVI files, making VivoActive software complementary to existing video resources

The VivoActive Producer 1.5 is available in special demo version for Power Macintosh free of charge directly from Vivo's Web site at http://www.vivo.com...

9/3.K/25 (Item 1 from file: 16)

DIALOG(R) File 16: Gale Group PROMT(R)

(c) 2011 Gale/Cengage, All rights reserved.

Tales from the real world.(media asset management systems) Dean, Richard

Broadcast, p 10B(1)

March 9 . 2001

Language: English Record Type: Abstract

Document Type: Magazine/Journal : Trade

Media asset management systems at television broadcasting companies provide the speed needed at news and post-production studios to access video clips, yet one problem that exists with such systems is knowing which data to store and which to dispose.

9/3,K/34 (Item 3 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB

(c) 2011 Gale/Cengage. All rights reserved.

Multimedia VARs make the video connection. (includes related case studies on Media Lab and Source Digital Systems) (Industry Trend or Event)

Jordan, Peter

VARbusiness, v11, n17, p36C(4)

Nov 1, 1995

Language: English Record Type: Fulltext; Abstract

Word Count: 1706 Line Count: 00142

the technology matures to play back full-motion, full-screen video, increasingly multimedia means digital video.

The Video Connection

"True multimedia is full-motion, interactive video with 30 frames per second and clear video reproduction," says Ken Thorson, manager of the channel management group at 33 Learning Corp., a multimedia training publisher in Milwauker.

"It used to be that because digital video had so many problems, people were sticking with graphics or animation instead of digital video...

9/3,K/43 (Item 1 from file: 647)

DIALOG(R) File 647: UBM Computer Fulltext

(c) 2011 UBM, LLC, All rights reserved.

NHL Video Clips. For A Price

Tony Kontzer

INFORMATIONWEEK . 2002 . n 919 . PG12

Publication Date: 021216

Journal Code: IWK Language: English

Record Type: Fulltext

Section Heading: Front End

Word Count: 94

The service uses streaming technology from Speedera, video servers from CinemaNow, and digitalrights management software from Microsoft. Says Ryan Hughes, the NHL's director of new media business development. "We fully expect to make money."

http://informationweek.com/

Copyright 2002 CMP Media LLC